

Untitled

EGF-related growth factors transforming growth factor-<SYM97> (TGF-<SYM97>) and vaccinia virus growth factor (VGF), which stimulate cellular proliferation via binding to the EGF receptor, were studied for their functional and physicochemical effects on IFN-<SYM103> production. In contrast to the positive signal on purified murine EGF and recombinant human EGF (both at 1 nM), neither synthetic TGF- α nor recombinant VGF were capable of restoring competence for IFN-<SYM103> production by Th cell-depleted spleen cell cultures. TGF-<SYM97> and VGF, in molar excess, also failed to block the helper signal of EGF for IFN-<SYM103> production. Thus TGF-<SYM97> and VGF failed to functionally compete for the EGF receptor in the murine spleen cell system. Both TGF- α and VGF stimulated murine 3T3 cell proliferation at concentrations similar to those of EGF, and thus their failure was not due to a general lack of biologic activity. Binding studies with 125I-EGF suggest that the EGF receptor on murine lymphocytes is not constitutively expressed, but inducible by the T cell mitogen staphylococcal enterotoxin A. TGF-<SYM97> did not compete with 125I-EGF for the induced receptor. The data suggest that lymphocytes express a novel inducible EGF receptor that differs from that expressed on cells such as 3T3 fibroblasts.

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(FILE 'HOME' ENTERED AT 16:58:22 ON 29 JUL 2005)

FILE 'MEDLINE, EMBASE, BIOSIS, CAPLUS' ENTERED AT 16:59:23 ON 29 JUL 2005

L1 14236 S TGF ALPHA
L2 1060998 S IMMUNIZ? OR VACCINE OR FUSION OR P64K
L3 354 S L1 AND L2
L4 183 DUP REM L3 (171 DUPLICATES REMOVED)
L5 189020 S ADJUVANT
L6 6 S L3 AND L5
L7 3 DUP REM L6 (3 DUPLICATES REMOVED)
L8 981923 S FREUNDS OR ALUMINUM OR ALUMINIUM
L9 1 S L3 AND L8
L10 5967208 S IMMUN?
L11 80545 S L5 AND L10
L12 13 S L1 AND L11
L13 7 DUP REM L12 (6 DUPLICATES REMOVED)
L14 661951 S FUSION OR CONJUGATE
L15 334 S L3 AND L14
L16 493925 S CARRIER
L17 2 S L15 AND L16
L18 6 S L1 AND L5 AND L14
L19 3 DUP REM L18 (3 DUPLICATES REMOVED)
L20 134 S P64K
L21 1 S L1 AND L20
L22 54 S L16 AND L20
L23 19 DUP REM L22 (35 DUPLICATES REMOVED)
L24 313989 S VACCINE
L25 10 S L1 AND L24
L26 7 DUP REM L25 (3 DUPLICATES REMOVED)
L27 39 S L7 OR L9 OR L13 OR L17 OR L18 OR L19 OR L21 OR L23 OR L26
L28 36 DUP REM L27 (3 DUPLICATES REMOVED)